

# CATALOGUE OF SUPPRESSION DEVICES

AUGUST, 1937



To "Cut the Crackle out of Radio." In most cases you just plug in a Set Lead Suppressor Type 300 Price 25/-

This catalogue briefly describes Belling-Lee Suppression appliances.

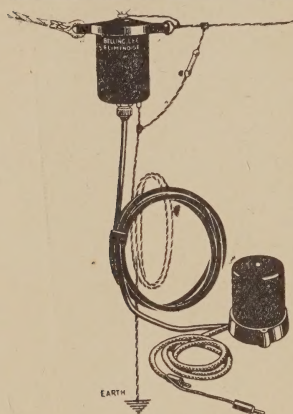
For further information on this subject see our book "Interference Suppression, the causes and cure of Electrical Interference with Radio Reception," 8th edition.

Price 1/6 Post free 1/8

**BELLING-LEE**  
SUPPRESSION SERVICE

## FUNDAMENTAL SUPPRESSION RULE.

Should machine-made interference be suppressed at the source or should anti-interference precautions be adopted at the receiving installation? The answer is that either procedure alone would usually be far too costly and still be inadequate to satisfy many listeners, whereas reasonable suppression at the noise source together with an efficient anti-interference receiving installation will give most satisfaction at least overall cost.



### "ELIMINOISE" ALL WAVE ANTI-INTERFERENCE AERIAL TYPE No. 308.

**Application.** Where the interference is known to be direct radiation from nearby sources such as trams, trolley buses, etc., or when it is desired to feed more than one set point from one aerial without interaction.

"ELIMINOISE"

\*Registered Trade Mark. British Patents applied for.

As easy to erect as an ordinary aerial.

**Description.** One aerial transformer, which can feed one or more receiver transformers.

**Dimensions :**

Aerial transformer,  $5\frac{5}{8}" \times 3\frac{1}{4}"$  diameter. Nett weight, 12 ozs.

Receiver transformer,  $3\frac{5}{8}" \times 3\frac{5}{8}"$  diameter. Nett weight, 10 ozs.

Complete "Eliminoise" ... 23 ozs.

List No. 306. Aerial transformer.

Price 20/-

List No. 307. Set end transformer.

Price 17/6

List No. 308. Kit less cable.

Price £1 17 6

Type C Cable. Flexible, metal braided, special composition covered, strongly recommended for all purposes.

List No. 1221 ... .. per yard. Price 1/-

### "ELIMINOISE" WIRING ACCESSORIES.

Type A Cable. Light lead covered, for internal use only.

List No. 1219 ... .. per yard. Price 7d.

List No. 345. Junction Box, Bakelite ... Price 1/-

List No. 350. Lightning arrestor for use with "Eliminoise" ... Price 2/6

List No. 303/F. 3-pin socket Flush for "Eliminoise" Set end ... Price 1/10

List No. 303/S. As 303/F but for Surface Mounting ... Price 1/10

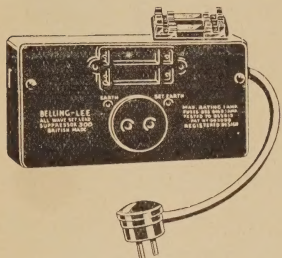
List No. 303/P. Plug for 303/F or /S ... Price 10d.



## SPECIAL NOTE.

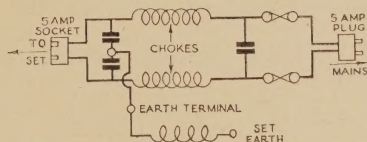
No anti-interference aerial can possibly prevent interference from entering the receiver via the mains lead ; a set lead suppressor type 300 is required for this ; nor can it give satisfaction unless the active part is outside the field of interference.

### SET LEAD SUPPRESSORS



Patent. Nos. 442099  
Reg. Des. 767316

**Application.** To plug in series with supply to receiver. Preferably at plug point.

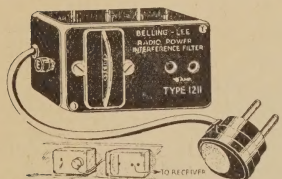


All-wave Set Lead Suppressor, illustrated above, gives suppression from 10 to 2,000 metres. The presence of the short wave choke in the earth lead gives better suppression over the whole scale. Mains chokes carry 1 amp. and replaceable cartridge type fuses protect chokes as well as receiver.

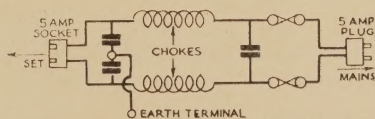
Dimensions (excluding lead and plug,)  $6\frac{3}{4}'' \times 3\frac{1}{2}'' \times 1\frac{1}{4}''$ .

Nett weight : 1 lb. 8 oz.

List No. 300. All-wave from 10 metres 1 amp., Price 25/-  
(Supplied with 3-pin plug and socket where required, without extra cost).



Reg. Des. 767316



A similar model for small receivers,  $\frac{1}{2}$  amp., must not be used with radiogram : without earth choke, and for use only on medium and long wave.

Dimensions (excluding lead and plug)  $5\frac{1}{4}'' \times 2\frac{1}{2}'' \times 2\frac{1}{4}''$   
Nett weight : 1 lb.

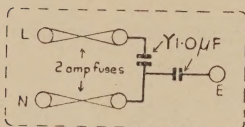
List No. 1211. Medium and long wave ;  $\frac{1}{2}$  amp. Price 19/6

List No. 305. Tropical Model. Short and medium wave ; 2 amp. Price 21/-

Spare fuses for	L300,	1 amp.,	L1061	Price each, 6d.	
"	"	L1211,	0.75 amp.,	L1059	Price each, 6d.
"	"	L305,	2 amp.,	L1062	Price each, 6d.

## CONDENSER SUPPRESSORS.

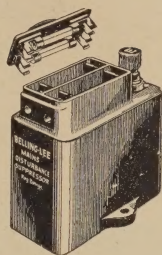
**Application.** General, at meter board at listener's end, across brushes of commutator motor where frame is earthed, to Anodes and Cathodes of mercury arc rectifiers, etc.



### Description. No. 1118.

Y 1.0 × Y 1.0 μF condensers arranged so as to connect one condenser across mains and

one between neutral main and earth. Fitted with 2-amp. cartridge fuses in removable safety carrier, the whole in brown bakelite case.



Patent 390813  
Reg. Design 767316

Latest type has special provision for sealing the fuse box.

Dimensions ... 3½" × 3¼" × 2¼" over all  
Nett weight ... 11 ozs.

List No. 1118.

Price 12/6

Special unit with centre tapped connection.

List No. 1118 C.T.

Price 12/6

Tropical suppressor as No. 1118, constructed to withstand trying conditions in hot humid climates.

List No. 1141.

Price 17/6

Suppressor for motors with unearthed frames.

List No. 1171.

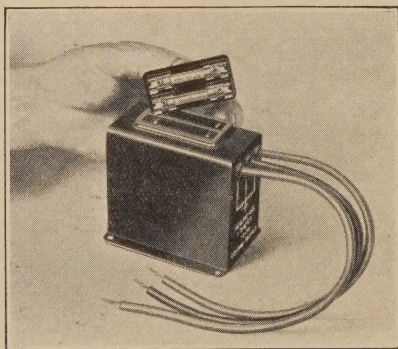
Price 9/6

## ★ CONDENSER SUPPRESSOR TYPE 314

**Application.** On large motors, generators and rectifiers.

**Description.** Y2 μF condensers housed in black steel case, with fuses and safety holders.

Containing tropical condensers connected as L1118.



List No. 314.

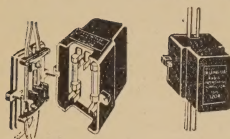
Price 16/6

List No. 314 C.T., with centre tap

Price 16/6

★ Denotes industrial type. See back page.

## LINE SUPPRESSOR No. 1204.



**Application.** To fit in the line at listener's meter board or between any pair of mains leads. Where utmost efficiency is desired, combined with convenience of fitting which is carried out without cutting conductor.

No exposed parts when connection is effected; can take conduit, lead covered cable V.I.R. or C.T. Provision for sealing by supply authority.

**Description.** Circuit details as for suppressor No. 1118, see above. Will accommodate  $\frac{5}{8}$ " conduit; complete with cable grip for L.C. or V.I.R. cables.

Two removable cartridge type fuses, 2-amp. Base and cover brown bakelite.

Dimensions ... ..  $3\frac{1}{2} \times 3\frac{1}{4} \times 3$  inches

Nett weight ... .. 16 ozs.

List No. 1204.

Price 14/6

List No. 1204 C.T. Special Unit, with centre tapped connection ...

Price 14/6

## ★ D.C. HUM SUPPRESSOR No. 1140.

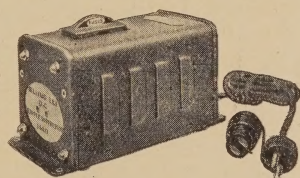
**Application.** To reduce hum and/or splutter present on some D.C. supplies, particularly those fed from mercury arc rectifiers. Owing to the limited demand for this class of appliance, interested readers are invited to write for further particulars.

Dimensions  $7\frac{5}{8} \times 4 \times 4\frac{3}{8}$  inches

Nett weight 7 lbs. 5 ozs.

List No. 1140.

Price £2 12 6



Reg. Des. 767316

## FLASHING SIGN SUPPRESSOR No. 1172.

**Application.** To be fitted as close as possible to flashing signs, thermostatic switches, switch contacts, etc.

**Description.** Choke condenser filter designed to carry up to  $\frac{1}{2}$ -amp. wired internally with fuse wire. In brown bakelite case.

Dimensions ... ..  $6 \times 1\frac{7}{8} \times 1\frac{3}{4}$  inches

Nett weight ... .. 12 ozs.

List No. 1172.

Price 11/6

If required this unit can be supplied with chokes suitable for 2 amps.



★ Denotes Industrial type, see back page.



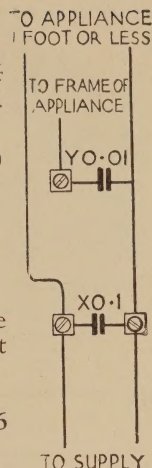
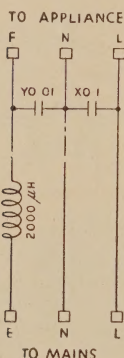
## FLEX SUPPRESSORS.

**Application.** To be fitted in the flexlead within one foot of any portable appliance suspected of creating interference. Not recommended for very rough use in factories, etc.  
For unearthed appliances (fed from 2-core flex) Type 1174.



**Description.** See diagram. Brown bakelite case with efficient cord grip. Nett weight  $2\frac{1}{2}$  ozs.  
Dimensions  $4\frac{1}{8}'' \times 1'' \times \frac{7}{8}''$ .  
List No. 1174.

Price 4/6



Patent No. 442099.

For earthed appliances (fed from 3-core flex).

Dimensions,  $4\frac{3}{4}'' \times 1\frac{3}{16}'' \times 1\frac{3}{16}''$ . Nett weight,  $4\frac{1}{2}$  ozs.

List No. 301.

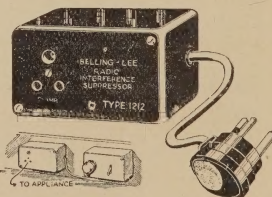
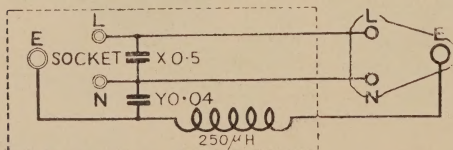
Price 7/6

Both types will shortly be fitted with a pair of Y0.005 condensers centre tapped to earth instead of Y0.01.

## APPLIANCE PLUG SUPPRESSOR No. 1212.

**Application.** To fit at plug supply to an electrical appliance that is connected with 3-core cable and a 3-pin plug and socket system.

**Description.** Brown bakelite case, with 3-pin 5 amp. inlet and outlet.



Patent No. 442099.

Dimensions (excluding lead and plug)  $4 \times 2\frac{1}{2} \times 1\frac{7}{8}$  inches

Nett weight ... .. 16 ozs.

List No. 1212.

Price 17/6

## CONTACT SUPPRESSOR No. 1144.

**Application.** To be mounted on motor car or boat engine frame;  
(a) close to generator with pigtail connected to unearthed brush.  
(b) close to contact breaker with pigtail to the side of coil not connected to contact breaker.

Across horn, petrol lift, or any other L.T. electrical appliance on car.

Sometimes useful across electric bell.

**Description.** One condenser, 0.5  $\mu$ F, capable of resisting engine temperature. In metal cylinder with bracket and pigtail connection.

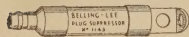
Dimensions,  $1\frac{3}{4} \times 2 \times \frac{7}{8}$  inches

Nett weight, 2 ozs.

} List No. 1144. Price 2/6



## SPARKING PLUG SUPPRESSOR No. 1143.



**Application.** To be fitted to sparking plugs (one to each) in series with H.T. lead.

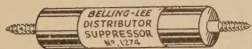
**Description.** Resistor of 15,000 ohms, capable of withstanding plug temperatures. May be fitted vertically or horizontally.

Dimensions,  $2\frac{5}{8} \times \frac{3}{8}$  inches

Nett weight, 1 oz.

} List No. 1143. Price 2/6

## DISTRIBUTOR SUPPRESSOR No. 1274.



**Application.**

To be fitted in H.T. lead as it enters distributor.

**Description.**

Resistor 15,000 ohms, unless specified.

Dimensions,  $3 \times \frac{3}{8}$  inches ...

Nett weight, 1 oz. ...

} List No. 1274. Price 3/-

### 4 Cylinder Car Kit.

Comprising 4 No. 1143 ; 2 No. 1144 ; 1 No. 1274. 15/6

### 6 Cylinder Car Kit

Comprising 6 No. 1143 ; 2 No. 1144 ; 1 No. 1274. 20/-

## WIND SCREEN WIPER SUPPRESSOR.



Choke and Condenser Unit complete with 6 feet of screened cable, and clip.

Dimensions  $4" \times 1" \times \frac{7}{8}"$ .

Nett weight 4 ozs.

List No. 1241.

Price 12/6

## ★NEON SIGN SUPPRESSOR No. 1142

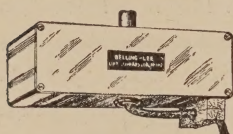
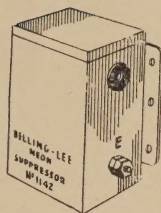
**Application.** To be inserted in the secondary of neon sign circuits one for each transformer.

**Description.** 50 Henry choke at approximately 50 milliamps. Designed for use up to 15,000 volts (7,500 volts to earth). In metal case, with glands for cable up to  $\frac{9}{16}$ ".

Dimensions ... ..  $8 \times 8\frac{3}{4} \times 5\frac{3}{8}$  in. deep  
 Nett weight ... .. 10 lbs. 6 ozs.

List No. 1142.

Price £3 7 6



## ★LIFT SUPPRESSOR No. 1182.

**Application.** To be connected in control circuit of lift car in place half-way terminal box, so as to prevent the conduction of H.F. Interference from motor control

circuits to the trailing cable.

Also suitable for multi contact flashing signs up to 10 contacts.

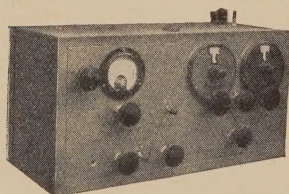
**Description.** Bank of ten chokes rated at 2 amps. In cast aluminium case with removable cover and to take  $1\frac{1}{2}$  in. conduit and with clamp for flexible cable.

Dimensions ... ..  $14 \times 4\frac{3}{4} \times 3\frac{3}{4}$  in. deep  
 Nett weight ... .. 9 lbs. 9 ozs.

List No. 1182.

Price £3 9 0

## INTERFERENCE MEASURING SET No. 310 to B.S.S. 727.



Gives direct reading of (a) Relative field strengths of stations and interference ; (b) Voltage of symmetrical interference on the mains or at the terminals of a noisy machine ; (c) Voltage of asymmetrical interference, etc. Ideal for manufacturers of

electrical appliances to prove their products, when sent out of the works, are suppressed in accordance with the requirements which have been provisionally laid down and are the basis of future legislation.

Dimensions overall ... ..  $18\frac{1}{2} \times 9\frac{3}{4} \times 10\frac{1}{2}$ " high  
 Nett weight ... .. 28 $\frac{1}{2}$  lbs.

Complete with Valves, Aerial and Voltage Calibrations.

List No. 310.

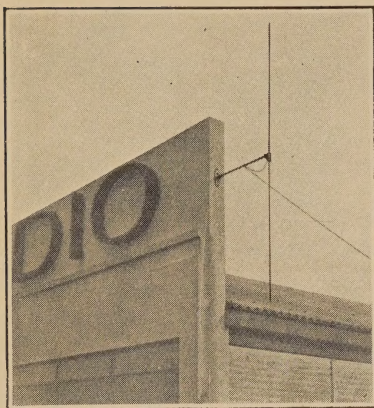
Price nett £85 0 0

Extra for calibration curves for field strength measurements, £6.

★Denotes Industrial type, see back page.



## TELEVISION AERIAL SYSTEM

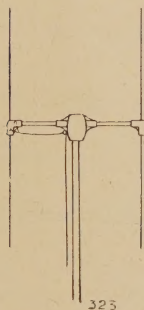


Essentially the system comprises a simple centred half-wave aerial which should be terminated by a balanced input system at the receiver. It consists of two enamelled brass tubings of correct proportions to give maximum reception of the vision channel at 45 mc. They are mounted in a cast aluminium clamp with sound insulating bush, the whole being rigidly attached to a supporting member led away at right angles and ending with a cast flange which requires bolting to the wall of a building, etc.

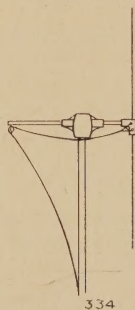
Such an aerial is not directional but may be made so by the use of a reflector. This is similar in construction to the aerial.

The added advantage of using a reflector is the likelihood of considerable reduction of interference. Other than that coming from the same direction as the signal.

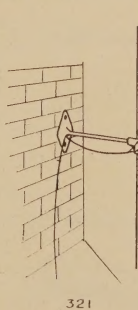
A more efficient method of mounting the complete system with reflector, is to use a masthead adaptor.



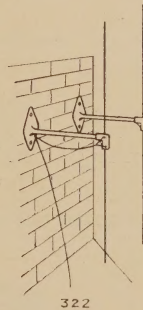
323



334



321



322

These aerial assemblies are complete with mounting castings and insulators, but do not include feeder (See No. 336).

List No. 334 Mast-head Television aerial Price 45/-

List No. 323 Mast-head Television aerial complete with Reflector, Price 65/-

List No. 321 Wall Mounting Television aerial Price 35/-

List No. 322 Reflector for No. 321 Price 35/-

## H.F. LOW-IMPEDANCE TRANSMISSION LINE.

Designed for conveying H.F. currents to or from centre fed half wave aerials. The use of a balanced twin feeder correctly terminated at the receiver minimises pick up of electrical interference. We have no proof that unbalanced feeder systems such as Coaxial cables given higher signal to noise ratios (theoretically they should not) therefore we are reluctant to advise such an expensive transmission line, as coaxial cable is many times the cost of our twin feeder. This feeder is non-hydroscopic and has a high resistance to adverse climatic conditions.

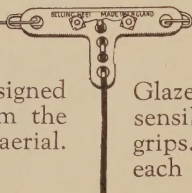


Cat. No. 344. Reel containing 65 feet in carton, 10/6

	344	336
Characteristic impedance in ohms at 45 m.c.	80	80
Loss in db per 100 ft. at 45 m.c.	3.0	3.0
at 14 m.c.	1.3	1.3
Price on reel of 65 feet	10/6	—
Per yard	—	6d.

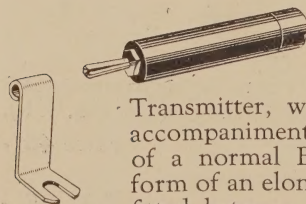
## “T” STRAIN INSULATOR.

An insulator designed to take the feed from the centre of a half wave aerial.



Glazed porcelain and with sensible terminals and cord grips. List No. 333, price each 1/6

## TELEFILTER.

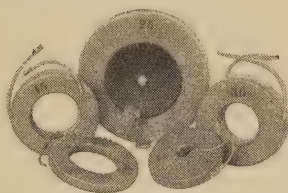


This is for the suppression of that form of interference which is noticeably within 3—4 miles of a Television Transmitter, when the programme and its sound accompaniment is received all over the tuning scale of a normal Broadcast receiver. Designed in the form of an elongated wanderplug which it is generally fitted between the aerial and the “A” terminal of the receiver.

List No. P/S1943. ... .. Price 2/6

## ★CHOKES AND CHOKE CASES.

These heavy duty H.F. mains chokes are available, rated from  $\frac{1}{2}$  amp. to 300 amp. The heavier "Post Office" types are wound with copper strip and have exceptionally low resistance, are designed to be fitted in any supply voltage power leads and to offer a high impedance to high-frequency currents, without giving any appreciable voltage drop with the rated current passing through the coils.



Chokes rated up to 60 amp. are supplied in cases of cast aluminium natural finish, which take 1" conduit as standard. An adapter can be supplied for terminating lead-covered cable at the entries to the case. The chokes are interchangeable and can be connected up in a few minutes thus facilitating the change of chokes in the event of rising load.

It should be noted that where chokes are mounted in metal cases there is inevitably a drop in inductance.

### Description.

List No.	P.O. Type.	Amps.	Inductance $\mu$ H.	D.C. Ohms.	Max. Volts Drop D.C.	Dimensions		Approx Weight lbs.	★ List Price.	
						dia.	depth		£	s. d.
Post Office Type Chokes Without Cases.										
1184	1A	3	2,000	0.8	2.4	4 $\frac{3}{8}$ "	1 $\frac{1}{2}$ "	2	15	0
1185	2A	5	950	0.26	1.3	5 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2	1	0
1186	3A	15	750	0.089	1.35	5 $\frac{1}{2}$ "	2 "	3 $\frac{3}{4}$	1	6
1125	4A	25	600	0.027	0.67	9	3 "	11	3	2
1126	5A	50	400	0.013	0.64	10 $\frac{1}{2}$ "	3 "	18	4	7
1187	†TB	75	420	0.017	1.28	11 $\frac{3}{4}$ "	2 $\frac{1}{4}$ "	16 $\frac{1}{4}$	5	15
1127	6A	100	400	0.006	0.64	10 $\frac{1}{2}$ "	4 $\frac{1}{4}$ "	35	8	4
1188		300	240	0.003	0.9	23"	11"	45	19	10
Skeleton Type Chokes Without Cases.										
1213		$\frac{1}{2}$	10,000	4.90	2.45	2 $\frac{5}{8}$ "	5"	$\frac{3}{8}$	7	9
1214		1	5,000	2.30	2.30	2 $\frac{7}{8}$ "	5"	$\frac{7}{16}$	7	9
1206		2	2,000	0.58	1.16	4"	5"	1	9	0
1207		5	1,000	0.25	1.25	5 $\frac{1}{8}$ "	5"	1 $\frac{1}{4}$	9	6
1208		15	500	0.072	1.38	5"	5"	2 $\frac{3}{4}$	12	9
1209		30	500	0.034	1.02	5 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	6 $\frac{1}{2}$	1	2
1210		60	250	0.013	0.78	5 $\frac{3}{4}$ "	2 $\frac{1}{8}$ "	11 $\frac{1}{4}$	1	16

†Trolley 'bus type.

★Denotes Industrial type, see back page.





## ★SINGLE SKELETON CHOKE IN METAL CASE.

### Application.

Where chokes are necessary, they are generally required in pairs, but a single choke is sometimes necessary to insert in an earthing cable from an electrical machine.

### Description.

Case cast aluminium, natural finish and will take up to 1 in. conduit.

List No.	Amps.	Nominal Inductance $\mu$ H.	D.C. Ohms.	Max. Volts Drop D.C.	Over-all Dimensions.	Approx Weight lbs.	★ List Price. £ s. d.
1231	$\frac{1}{2}$	10,000	4.90	2.45	5" dia. $\times$ 2" deep	2 $\frac{3}{4}$	18 6
1232	1	5,000	2.30	2.30	" "	2 $\frac{3}{4}$	18 6
1233	2	2,000	0.58	1.16	" "	3 $\frac{1}{4}$	19 6
1123	5	1,000	0.25	1.25	7 $\frac{1}{2}$ " dia. $\times$ 3 $\frac{1}{4}$ " deep	4 $\frac{1}{2}$	1 13 0
1124	15	500	0.072	1.08	" "	5 $\frac{1}{2}$	1 15 0
1145	30	500	0.034	1.02	" "	10 $\frac{1}{2}$	2 6 0
1195	60	250	0.013	0.78	7 $\frac{1}{2}$ " dia. $\times$ 5" deep	13 $\frac{3}{4}$	4 8 0

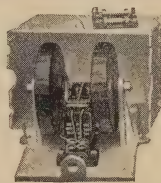
## ★ DOUBLE CHOKE AND CONDENSER FILTER.

### Application.

For use with motors, convertors and other purposes where condensers alone are inadequate.

### Description.

Illustration shows double choke and condenser filter with lid removed. In this type the chokes are face to face with the condenser unit between. Interchangeable cartridge fuses are provided, fitted to a safety carrier. Condensers Y 1.0  $\mu$ F with removable fuses.



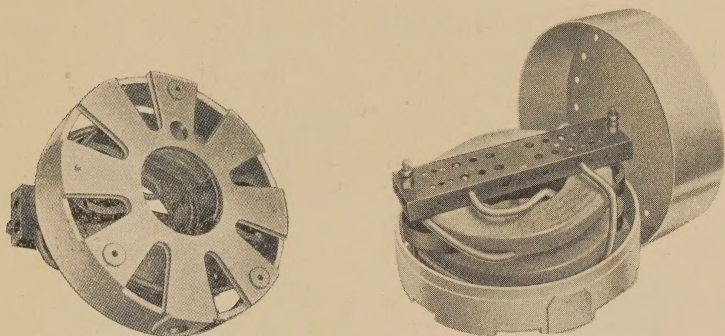
Reg. Des. 767316

Case cast aluminium, taking 1 in. conduit.

List No.	Amps.	Nominal Inductance $\mu$ H.	D.C. Ohms. per Coil.	Total Volts. Drop D.C.	Overall Dimensions.	Approx Weight lbs.	★ List Price £ s. d.
1234	2	2,000	0.58	2.32	7 $\frac{1}{4}$ " $\times$ 6 $\frac{3}{8}$ " $\times$ 6" deep	6 $\frac{1}{2}$	2 18 0
1235	5	1,000	0.25	2.50	" "	7	2 19 0

★Denotes Industrial type, see back page.

## ★ POST OFFICE TYPE CHOKE UNITS



A new type of choke case has recently been designed by the Post Office Engineering Department with a view to enabling the public to obtain choke filters at the lowest price consistent with efficiency, and the illustration above makes clear its general form. Belling and Lee Ltd. were privileged to assist in the early stages of the design work.

The shape of the case is circular and it consists of a cast aluminium base into which two chokes can be mounted co-axially, with suitable spacing. The bottom of the case is cut away so as to reduce the losses due to the proximity of the metal to the chokes and to assist cooling ; provision is made for the accommodation of a double condenser unit.

Connections are made on to an accessible terminal strip and there are conduitentry bosses on two sides, only one of which is drilled, in the ordinary way.

Over the top half of the choke assembly a spun aluminium cover fits tightly ; nuts hold the cover on and the whole unit is adequately protected from damage, provision being made for sealing where required.

Chokes and condensers of modified design can be supplied to fit these cases, enabling suppression filters of 3 to 30 amps to be built up.

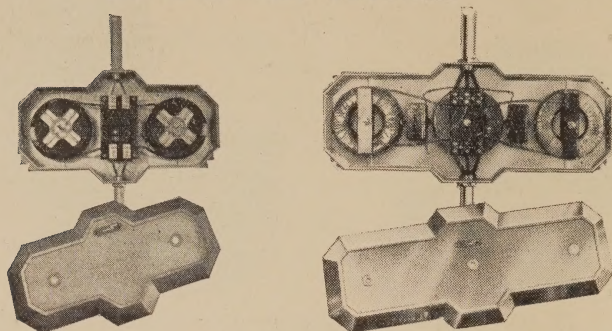
Details of filters with chokes but no condensers.

List No.	Current Rating Amps.	Nominal Inductance Per Choke $\mu$ H	D.C. Ohms Per Choke	Dimensions	★ List Price		
					£	s.	d.
360	3	2,000	0.55	4 $\frac{1}{8}$ " dia. $\times$ $\frac{3}{4}$ "	2	13	0
361	5	1,000	0.26	5" dia. $\times$ $\frac{3}{4}$ "	2	17	0
362	15	750	0.091	7" dia. $\times$ $\frac{3}{4}$ "	3	7	0
363	30	250	0.022	7" dia. $\times$ $\frac{3}{4}$ "	3	14	0

Suitable P.O. type condensers units in metal case but without fuses can be supplied at 6/6.★ This unit is fitted inside the chokes at the back of the case. Belling-Lee type 1171 condenser unit, which is adequately fused can be accommodated in the case ; its price is 9/6.

★ Denotes Industrial type, See back page.

## DOUBLE & TREBLE CHOKÉ & CONDENSER FILTERS



Reg. Des. 767316

**Application.** For use when necessary to fit filters to rotary converters ; two or three wire D.C. distribution circuits, three phase power supplies, etc.

Cast aluminium cases take hank type chokes from 15 to 60 amps. together with necessary condenser units. (Y1·0  $\mu$ F), and fuses on safety carriers.

Larger double and treble choke units (for currents up to 300 amps.) can be supplied as special orders, and suppressor equipments can be made up to customer's requirements.

### DOUBLE CHOKÉ & CONDENSER FILTERS.

List No.	Amps.	Nominal Inductance $\mu$ H.	D.C. Ohms. per Coil.	Total Volts Drop D.C.	Over-all Dimensions.	Approx Weight lbs.	★ List Price. £ s. d.
1236	15	500	0·072	2·16	17" $\times$ 9½" $\times$ 3¾" deep	18½	4 6 0
1237	30	500	0·034	2·04	" "	26½	5 8 0
1238	60	250	0·013	1·56	" "	36	7 8 0

### TREBLE CHOKÉ & CONDENSER FILTERS.

List No.	Amps.	Nominal Inductance $\mu$ H.	D.C. Ohms. per Coil	Over-all Dimensions.	Approx Weight lbs.	★ List Price. £ s. d.
1161	15	500	0·072	24" $\times$ 10¼" $\times$ 4¾" deep	22	7 12 0
1162	30	500	0·034	" "	35	9 5 0
1194	60	250	0·013	" "	50	11 5 0

★Denotes Industrial type, see back page.



## C.O.D. OFFER—INTERFERENCE SUPPRESSORS

**286.** We will always send suppressors C. O.D. on the understanding that if the results are disappointing we will refund the money. We expect listeners to approach their dealer in the first instance, but if they are unable to obtain this service locally, to give us the name and address of the dealer when writing.

**287.** If yours is one of the few cases where results are disappointing, *DO NOT return the unit at once*, but fill up the interference questionnaire enclosed with the suppressor, we may be able to help you further, and if not, *we will tell you when to return the unit.*

## CONDITIONS OF LOAN OF HEAVIER AND MORE EXPENSIVE APPARATUS.

**288.** Provided that we or the Post Office Radio Engineers consider that there is a reasonable chance of success, we are willing to lend for trial the necessary heavy apparatus for suppression of more persistent interference. In the event of its return the only charge is carriage both ways plus fee to cover testing before return to stock.

**289.** If neither we nor the Post Office Engineers are consulted, but a customer thinks there is a chance of apparatus being helpful and wishes to give it a trial, we may still allow it out on loan, but in the event of it being returned as unsuitable, in addition to carriage and testing charges we make a charge of 2/6 per item to cover our handling and packing expenses.

**290.** Period—14 days, subject to extension if we consider a useful purpose will be served.

**291.** Goods which are sealed can only be returned for credit or exchange under guarantee with seals intact, unless there is evidence that the seals were broken by a Belling-Lee engineer.

DO NOT RETURN GOODS WITHOUT FIRST WRITING  
TO US

## A FEW USERS OF BELLING & LEE SUPPRESSORS.

Post Office.	Hospitals.
Royal Arsenal.	Power Supply Companies.
Colonial Governments.	Electrical Manufacturers.
Crown Agents for Colonies.	Lift Manufacturers.
Royal Air Force.	Neon Sign Manufacturers.
Police.	Research Laboratories.
Fire Brigades.	Ships, including liners and
Radio Manufacturers.	naval speed boats.
Motor Engineers and Manufacturers.	

All appliances are designed and tested in accordance with B.S.S.613 where applicable and comply with the recommendations of the Institution of Electrical Engineers. The letters X & Y applied to condensers refer to the classes laid down in B.S.S.613.

#### CONDITIONS OF SALE.

1. Quotations are given and orders are accepted on the distinct understanding that where despatch promises are given, the number of days commences from actual receipt of order, and does not include Saturdays, Sundays or general holidays. We undertake to deliver promptly but we cannot accept any responsibility for direct or indirect loss or damage due to delays caused by Strikes, Lock-outs, Fire, total or partial stoppage of Works, or any unforeseen cause whatever over which we have no control.
2. Any complaints as to quality or quantity must be made within three days of receipt of goods, otherwise they cannot be recognised.
3. Usual business references required, or cash with order on all first transactions : trade settlement terms  $3\frac{3}{4}\%$  seven days,  $2\frac{1}{2}\%$  monthly account.
4. British materials are used whenever possible.
5. Prices quoted are based on prices ruling on the date of going to press, and are subject to revision without notice.
6. Any trade discounts quoted are in accordance with the practice of the Radio Component Manufacturers' Federation.

#### GUARANTEE.

If any article is proved to be defective in workmanship or material within one year from date of purchase, it will be replaced free of charge by the manufacturers, Belling & Lee, Ltd., Cambridge Arterial Road, Enfield, Mdx.

#### INDUSTRIAL SUPPRESSORS.

★ Types marked with an asterisk are classed as industrial suppressors and are seldom stocked by dealers, but agents and dealers can generally obtain them by return from factory stocks.